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**SEVERN
TRENT**

STL

ANALYTICAL REPORT

PROJECT NO. 100.58.15

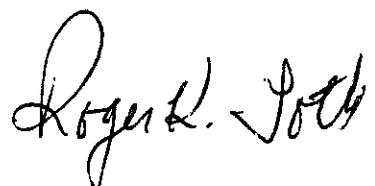
EMD CHEMICALS INC./OHIO

Lot #: A3I050168

Dan Weed

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SEVERN TRENT LABORATORIES, INC.



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Project Manager**

October 7, 2003

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CASE NARRATIVE

A3I050168

The following report contains the analytical results for five water samples and one quality control sample submitted to STL North Canton by The Payne Firm, Inc. from the EMD Chemicals Inc./Ohio Site, project number 100.58.15. The samples were received September 05, 2003, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Dan Weed on September 15, 2003, and September 16, 2003. A summary of QC data for these analyses is included at the back of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to compliant with laboratory protocol.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.7°C and 3.1°C.

GC/MS VOLATILES

The analytical results met the requirements of the laboratory's QA/QC program.

GC/MS SEMIVOLATILES

Sample MW-506/090403 had surrogate recoveries outside acceptance limits; however, re-extraction could not be performed due to insufficient sample volume.

Sample MW-506/090403 had elevated reporting limits due to insufficient sample volume.

METALS

The analytical results met the requirements of the laboratory's QA/QC program.

CASE NARRATIVE (continued)

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals</u>
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*
- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, PAH, and Herbicide methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.



STL North Canton Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#100439), Kansas (#E10336), Kentucky (#90021), Massachusetts (#M-OH048),
Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001),
New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CLO024),
Pennsylvania (#68-340), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003),
Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY,
USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

EXECUTIVE SUMMARY - Detection Highlights

A3I050168

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
MW-30/090403 09/04/03 13:10 002				
Trichloroethene	4.1	1.0	ug/L	SW846 8260B
MW-42/090403 09/04/03 10:16 003				
Chromium	0.0088	0.0050	mg/L	SW846 6010B
Total Suspended Solids	30	4.0	mg/L	MCAWW 160.2
MW-17/090403 09/04/03 10:30 004				
Chromium - DISSOLVED	0.0078	0.0050	mg/L	SW846 6010B
Nickel - DISSOLVED	0.10	0.040	mg/L	SW846 6010B
Chromium	2.4	0.0050	mg/L	SW846 6010B
Nickel	0.25	0.040	mg/L	SW846 6010B
Total Suspended Solids	180	4.0	mg/L	MCAWW 160.2

ANALYTICAL METHODS SUMMARY

A3I050168

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Non-Filterable Residue (TSS)	MCAWW 160.2
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A3I050168

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
FXNLM	001	MW-11C/090403	09/04/03	14:05
FXNLP	002	MW-30/090403	09/04/03	13:10
FXNLQ	003	MW-42/090403	09/04/03	10:16
FXNLR	004	MW-17/090403	09/04/03	10:30
FXNLV	005	MW-506/090403	09/04/03	15:10
FXNLW	006	TB03/090403	09/04/03	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PAYNE FIRM INC.

Client Sample ID: MW-11C/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-001 Work Order #....: FXNLM1AA Matrix.....: WG
 Date Sampled....: 09/04/03 14:05 Date Received...: 09/05/03
 Prep Date.....: 09/11/03 Analysis Date...: 09/11/03
 Prep Batch #....: 3258345
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Acetonitrile	ND	20	ug/L
Acrolein	ND	20	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-11C/090403

GC/MS Volatiles

Lot-Sample #...: A3I050168-001 Work Order #...: FXNLM1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Acrylonitrile	ND	20	ug/L
Chloroprene	ND	2.0	ug/L
3-Chloropropene	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
trans-1,4-Dichloro- 2-butene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,4-Dioxane	ND	200	ug/L
Ethyl methacrylate	ND	1.0	ug/L
Iodomethane	ND	1.0	ug/L
Isobutanol	ND	50	ug/L
Methacrylonitrile	ND	2.0	ug/L
Methyl methacrylate	ND	2.0	ug/L
Propionitrile	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
Vinyl acetate	ND	2.0	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
		(73 - 122)	
Dibromofluoromethane	99	(61 - 128)	
1,2-Dichloroethane-d4	85	(76 - 110)	
Toluene-d8	98	(74 - 116)	
4-Bromofluorobenzene	84		

PAYNE FIRM INC.

Client Sample ID: MW-11C/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-001 Work Order #....: FXNLM1AC Matrix.....: WG
 Date Sampled....: 09/04/03 14:05 Date Received...: 09/05/03
 Prep Date.....: 09/05/03 Analysis Date...: 09/09/03
 Prep Batch #....: 3248389
 Dilution Factor: 1 Method.....: SW846 8270C

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Phenol	ND	10	ug/L
bis(2-Chloroethyl)- ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl- amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-11C/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-001 Work Order #....: FXNLM1AC Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	10	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	73	(32 - 112)
2-Fluorobiphenyl	67	(30 - 110)
Terphenyl-d14	92	(10 - 144)
Phenol-d5	62	(10 - 113)
2-Fluorophenol	69	(13 - 110)
2,4,6-Tribromophenol	75	(21 - 122)

PAYNE FIRM INC.

Client Sample ID: MW-30/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-002 Work Order #....: FXNLP1AA Matrix.....: WG
 Date Sampled...: 09/04/03 13:10 Date Received...: 09/05/03
 Prep Date.....: 09/11/03 Analysis Date..: 09/11/03
 Prep Batch #....: 3258345
 Dilution Factor: 1 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	4.1	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Acetonitrile	ND	20	ug/L
Acrolein	ND	20	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-30/090403

GC/MS Volatiles

Lot-Sample #...: A3I050168-002 Work Order #...: FXNLP1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Acrylonitrile	ND	20	ug/L
Chloroprene	ND	2.0	ug/L
3-Chloropropene	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
trans-1,4-Dichloro- 2-butene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,4-Dioxane	ND	200	ug/L
Ethyl methacrylate	ND	1.0	ug/L
Iodomethane	ND	1.0	ug/L
Isobutanol	ND	50	ug/L
Methacrylonitrile	ND	2.0	ug/L
Methyl methacrylate	ND	2.0	ug/L
Propionitrile	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
Vinyl acetate	ND	2.0	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Dibromofluoromethane	101	(73 - 122)	
1,2-Dichloroethane-d4	86	(61 - 128)	
Toluene-d8	100	(76 - 110)	
4-Bromofluorobenzene	82	(74 - 116)	

PAYNE FIRM INC.

Client Sample ID: MW-30/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-002 Work Order #....: FXNLP1AC Matrix.....: WG
 Date Sampled...: 09/04/03 13:10 Date Received...: 09/05/03
 Prep Date.....: 09/05/03 Analysis Date...: 09/09/03
 Prep Batch #....: 3248389
 Dilution Factor: 1 Method.....: SW846 8270C

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Phenol	ND	10	ug/L
bis(2-Chloroethyl) - ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-30/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-002 Work Order #....: FXNLP1AC Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro- 2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	10	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	77	(32 - 112)
2-Fluorobiphenyl	71	(30 - 110)
Terphenyl-d14	120	(10 - 144)
Phenol-d5	67	(10 - 113)
2-Fluorophenol	73	(13 - 110)
2,4,6-Tribromophenol	82	(21 - 122)

PAYNE FIRM INC.

Client Sample ID: MW-42/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-003 Work Order #....: FXNLQ1AA Matrix.....: WG
 Date Sampled....: 09/04/03 10:16 Date Received...: 09/05/03
 Prep Date.....: 09/11/03 Analysis Date...: 09/11/03
 Prep Batch #....: 3258345
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Acetonitrile	ND	20	ug/L
Acrolein	ND	20	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-42/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-003 Work Order #....: FXNLQ1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acrylonitrile	ND	20	ug/L
Chloroprene	ND	2.0	ug/L
3-Chloropropene	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,4-Dioxane	ND	200	ug/L
Ethyl methacrylate	ND	1.0	ug/L
Iodomethane	ND	1.0	ug/L
Isobutanol	ND	50	ug/L
Methacrylonitrile	ND	2.0	ug/L
Methyl methacrylate	ND	2.0	ug/L
Propionitrile	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
Vinyl acetate	ND	2.0	ug/L
SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
Dibromofluoromethane	102	(73 - 122)	
1,2-Dichloroethane-d4	86	(61 - 128)	
Toluene-d8	99	(76 - 110)	
4-Bromofluorobenzene	82	(74 - 116)	

PAYNE FIRM INC.

Client Sample ID: MW-42/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-003 Work Order #....: FXNLQ1AC Matrix.....: WG
 Date Sampled....: 09/04/03 10:16 Date Received...: 09/05/03
 Prep Date.....: 09/05/03 Analysis Date...: 09/09/03
 Prep Batch #....: 3248389
 Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	ND	10	ug/L
bis(2-Chloroethyl)- ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl- amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-42/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-003 Work Order #....: FXNLQ1AC Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	10	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>
		<u>RECOVERY</u>	<u>LIMITS</u>
Nitrobenzene-d5	89		(32 - 112)
2-Fluorobiphenyl	80		(30 - 110)
Terphenyl-d14	84		(10 - 144)
Phenol-d5	76		(10 - 113)
2-Fluorophenol	82		(13 - 110)
2,4,6-Tribromophenol	92		(21 - 122)

PAYNE FIRM INC.

Client Sample ID: MW-42/090403

TOTAL Metals

Lot-Sample #....: A3I050168-003 **Matrix.....:** WG
Date Sampled....: 09/04/03 10:16 **Date Received...:** 09/05/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 3251116						
Arsenic	ND	0.010	mg/L	SW846 6010B	09/08-09/10/03	FXNLQ1AG
		Dilution Factor: 1				
Chromium	0.0088	0.0050	mg/L	SW846 6010B	09/08-09/10/03	FXNLQ1AH
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	09/08-09/10/03	FXNLQ1AJ
		Dilution Factor: 1				

PAYNE FIRM INC.

Client Sample ID: MW-42/090403

DISSOLVED Metals

Lot-Sample #....: A3I050168-003
Date Sampled....: 09/04/03 10:16 Date Received...: 09/05/03 Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
	Prep Batch #....: 3251116					
Arsenic	ND	0.010	mg/L	SW846 6010B	09/08-09/10/03	FXNLQ1AD
		Dilution Factor:	1			
Chromium	ND	0.0050	mg/L	SW846 6010B	09/08-09/10/03	FXNLQ1AE
		Dilution Factor:	1			
Nickel	ND	0.040	mg/L	SW846 6010B	09/08-09/10/03	FXNLQ1AF
		Dilution Factor:	1			

PAYNE FIRM INC.

Client Sample ID: MW-42/090403

General Chemistry

Lot-Sample #....: A3I050168-003 Work Order #....: FXNLQ Matrix.....: WG
Date Sampled....: 09/04/03 10:16 Date Received...: 09/05/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids	30	4.0	mg/L	MCAWW 160.2	09/10/03	3252699

Dilution Factor: 1

PAYNE FIRM INC.

Client Sample ID: MW-17/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-004 Work Order #....: FXNLR1AA Matrix.....: WG
 Date Sampled...: 09/04/03 10:30 Date Received...: 09/05/03
 Prep Date.....: 09/11/03 Analysis Date...: 09/11/03
 Prep Batch #....: 3258345
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Acetonitrile	ND	20	ug/L
Acrolein	ND	20	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-17/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-004 Work Order #....: FXNLR1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acrylonitrile	ND	20	ug/L
Chloroprene	ND	2.0	ug/L
3-Chloropropene	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
trans-1,4-Dichloro- 2-butene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,4-Dioxane	ND	200	ug/L
Ethyl methacrylate	ND	1.0	ug/L
Iodomethane	ND	1.0	ug/L
Isobutanol	ND	50	ug/L
Methacrylonitrile	ND	2.0	ug/L
Methyl methacrylate	ND	2.0	ug/L
Propionitrile	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
Vinyl acetate	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	99	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

PAYNE FIRM INC.

Client Sample ID: MW-17/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-004 Work Order #....: FXNLR1AC Matrix.....: WG
 Date Sampled....: 09/04/03 10:30 Date Received...: 09/05/03
 Prep Date.....: 09/05/03 Analysis Date...: 09/09/03
 Prep Batch #....: 3248389
 Dilution Factor: 1 Method.....: SW846 8270C

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Phenol	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	ND	10	ug/L
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propyl-amine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy)methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-17/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-004 Work Order #....: FXNLR1AC Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	10	ug/L
Phenanthrrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	79	(32 - 112)
2-Fluorobiphenyl	72	(30 - 110)
Terphenyl-d14	99	(10 - 144)
Phenol-d5	67	(10 - 113)
2-Fluorophenol	71	(13 - 110)
2,4,6-Tribromophenol	76	(21 - 122)

PAYNE FIRM INC.

Client Sample ID: MW-17/090403

TOTAL Metals

Lot-Sample #...: A3I050168-004 **Matrix.....:** WG
Date Sampled...: 09/04/03 10:30 **Date Received...**: 09/05/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #... : 3251116						
Arsenic	ND	0.010	mg/L	SW846 6010B	09/08-09/10/03	FXNLR1AG
		Dilution Factor: 1				
Chromium	2.4	0.0050	mg/L	SW846 6010B	09/08-09/10/03	FXNLR1AH
		Dilution Factor: 1				
Nickel	0.25	0.040	mg/L	SW846 6010B	09/08-09/10/03	FXNLR1AJ
		Dilution Factor: 1				

PAYNE FIRM INC.

Client Sample ID: MW-17/090403

DISSOLVED Metals

Lot-Sample #....: A3I050168-004

Matrix.....: WG

Date Sampled....: 09/04/03 10:30 Date Received..: 09/05/03

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....:	3251116					
Arsenic	ND	0.010	mg/L	SW846 6010B	09/08-09/10/03	FXNLR1AD
		Dilution Factor: 1				
Chromium	0.0078	0.0050	mg/L	SW846 6010B	09/08-09/10/03	FXNLR1AE
		Dilution Factor: 1				
Nickel	0.10	0.040	mg/L	SW846 6010B	09/08-09/10/03	FXNLR1AF
		Dilution Factor: 1				

PAYNE FIRM INC.

Client Sample ID: MW-17/090403

General Chemistry

Lot-Sample #....: A3I050168-004 Work Order #....: FXNLR Matrix.....: WG
Date Sampled....: 09/04/03 10:30 Date Received...: 09/05/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Total Suspended Solids	180	4.0	mg/L	MCAWW 160.2	09/10/03	3252699

Dilution Factor: 1

PAYNE FIRM INC.

Client Sample ID: MW-506/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-005 Work Order #....: FXNLV1AA Matrix.....: WG
 Date Sampled...: 09/04/03 15:10 Date Received...: 09/05/03
 Prep Date.....: 09/11/03 Analysis Date...: 09/11/03
 Prep Batch #....: 3258345
 Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Acetonitrile	ND	20	ug/L
Acrolein	ND	20	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-506/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-005 Work Order #....: FXNLV1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Acrylonitrile	ND	20	ug/L
Chloroprene	ND	2.0	ug/L
3-Chloropropene	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
trans-1,4-Dichloro- 2-butene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,4-Dioxane	ND	200	ug/L
Ethyl methacrylate	ND	1.0	ug/L
Iodomethane	ND	1.0	ug/L
Isobutanol	ND	50	ug/L
Methacrylonitrile	ND	2.0	ug/L
Methyl methacrylate	ND	2.0	ug/L
Propionitrile	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
Vinyl acetate	ND	2.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

PAYNE FIRM INC.

Client Sample ID: MW-506/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-005 Work Order #....: FXNLV1AC Matrix.....: WG
 Date Sampled....: 09/04/03 15:10 Date Received...: 09/05/03
 Prep Date.....: 09/09/03 Analysis Date..: 09/10/03
 Prep Batch #....: 3252208
 Dilution Factor: 1 Method.....: SW846 8270C

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Phenol	ND	25	ug/L
bis(2-Chloroethyl)- ether	ND	25	ug/L
2-Chlorophenol	ND	25	ug/L
1,3-Dichlorobenzene	ND	25	ug/L
1,4-Dichlorobenzene	ND	25	ug/L
1,2-Dichlorobenzene	ND	25	ug/L
2-Methylphenol	ND	25	ug/L
2,2'-oxybis(1-Chloropropane)	ND	25	ug/L
4-Methylphenol	ND	25	ug/L
N-Nitrosodi-n-propyl- amine	ND	25	ug/L
Hexachloroethane	ND	25	ug/L
Nitrobenzene	ND	25	ug/L
Isophorone	ND	25	ug/L
2-Nitrophenol	ND	25	ug/L
2,4-Dimethylphenol	ND	25	ug/L
bis(2-Chloroethoxy)- methane	ND	25	ug/L
2,4-Dichlorophenol	ND	25	ug/L
1,2,4-Trichloro- benzene	ND	25	ug/L
Naphthalene	ND	25	ug/L
4-Chloroaniline	ND	25	ug/L
Hexachlorobutadiene	ND	25	ug/L
4-Chloro-3-methylphenol	ND	25	ug/L
2-Methylnaphthalene	ND	25	ug/L
Hexachlorocyclopenta- diene	ND	120	ug/L
2,4,6-Trichloro- phenol	ND	25	ug/L
2,4,5-Trichloro- phenol	ND	25	ug/L
2-Chloronaphthalene	ND	25	ug/L
2-Nitroaniline	ND	120	ug/L
Dimethyl phthalate	ND	25	ug/L
Acenaphthylene	ND	25	ug/L
2,6-Dinitrotoluene	ND	25	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-506/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-005 Work Order #....: FXNLV1AC Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
3-Nitroaniline	ND	120	ug/L
Acenaphthene	ND	25	ug/L
2,4-Dinitrophenol	ND	120	ug/L
4-Nitrophenol	ND	120	ug/L
Dibenzofuran	ND	25	ug/L
2,4-Dinitrotoluene	ND	25	ug/L
Diethyl phthalate	ND	25	ug/L
4-Chlorophenyl phenyl ether	ND	25	ug/L
Fluorene	ND	25	ug/L
4-Nitroaniline	ND	120	ug/L
4,6-Dinitro-2-methylphenol	ND	120	ug/L
N-Nitrosodiphenylamine	ND	25	ug/L
4-Bromophenyl phenyl ether	ND	25	ug/L
Hexachlorobenzene	ND	25	ug/L
Pentachlorophenol	ND	25	ug/L
Phenanthrene	ND	25	ug/L
Anthracene	ND	25	ug/L
Carbazole	ND	25	ug/L
Di-n-butyl phthalate	ND	25	ug/L
Fluoranthene	ND	25	ug/L
Pyrene	ND	25	ug/L
Butyl benzyl phthalate	ND	25	ug/L
3,3'-Dichlorobenzidine	ND	120	ug/L
Benzo(a)anthracene	ND	25	ug/L
Chrysene	ND	25	ug/L
bis(2-Ethylhexyl) phthalate	ND	25	ug/L
Di-n-octyl phthalate	ND	25	ug/L
Benzo(b)fluoranthene	ND	25	ug/L
Benzo(k)fluoranthene	ND	25	ug/L
Benzo(a)pyrene	ND	25	ug/L
Indeno(1,2,3-cd)pyrene	ND	25	ug/L
Dibenz(a,h)anthracene	ND	25	ug/L
Benzo(ghi)perylene	ND	25	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	7.7 *	(32 - 112)
2-Fluorobiphenyl	4.4 *	(30 - 110)
Terphenyl-d14	1.8 *	(10 - 144)
Phenol-d5	2.1 *	(10 - 113)
2-Fluorophenol	6.5 *	(13 - 110)
2,4,6-Tribromophenol	9.8 *	(21 - 122)

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: MW-506/090403

GC/MS Semivolatiles

Lot-Sample #....: A3I050168-005 Work Order #....: FXNLV1AC Matrix.....: WG

NOTE(S) :

* Surrogate recovery is outside stated control limits.

PAYNE FIRM INC.

Client Sample ID: TB03/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-006 Work Order #....: FXNLW1AA Matrix.....: WQ
Date Sampled...: 09/04/03 Date Received...: 09/05/03
Prep Date.....: 09/11/03 Analysis Date...: 09/11/03
Prep Batch #....: 3258345
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	2.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
Acetonitrile	ND	20	ug/L
Acrolein	ND	20	ug/L

(Continued on next page)

PAYNE FIRM INC.

Client Sample ID: TB03/090403

GC/MS Volatiles

Lot-Sample #....: A3I050168-006 Work Order #....: FXNLW1AA Matrix.....: WQ

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Acrylonitrile	ND	20	ug/L
Chloroprene	ND	2.0	ug/L
3-Chloropropene	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L
Dichlorofluoromethane	ND	2.0	ug/L
1,4-Dioxane	ND	200	ug/L
Ethyl methacrylate	ND	1.0	ug/L
Iodomethane	ND	1.0	ug/L
Isobutanol	ND	50	ug/L
Methacrylonitrile	ND	2.0	ug/L
Methyl methacrylate	ND	2.0	ug/L
Propionitrile	ND	4.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
Vinyl acetate	ND	2.0	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Dibromofluoromethane	100	(73 - 122)	
1,2-Dichloroethane-d4	83	(61 - 128)	
Toluene-d8	100	(76 - 110)	
4-Bromofluorobenzene	82	(74 - 116)	

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A3I050168
MB Lot-Sample #: A3I150000-345

Work Order #....: F0C0H1AA
Prep Date.....: 09/11/03
Analysis Date..: 09/11/03
Dilution Factor: 1

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Chloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B
Acetonitrile	ND	20	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Chloroprene	ND	2.0	ug/L	SW846 8260B
3-Chloropropene	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A3I050168

Work Order #....: F0C0H1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	1.0	ug/L	SW846 8260B
Dichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	200	ug/L	SW846 8260B
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
Iodomethane	ND	1.0	ug/L	SW846 8260B
Isobutanol	ND	50	ug/L	SW846 8260B
Methacrylonitrile	ND	2.0	ug/L	SW846 8260B
Methyl methacrylate	ND	2.0	ug/L	SW846 8260B
Propionitrile	ND	4.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
SURROGATE	PERCENT	RECOVERY		LIMITS
		RECOVERY	LIMITS	
Dibromofluoromethane	100	(73 - 122)		
1,2-Dichloroethane-d4	86	(61 - 128)		
Toluene-d8	100	(76 - 110)		
4-Bromofluorobenzene	82	(74 - 116)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT**GC/MS Semivolatiles**

Client Lot #....: A3I050168
MB Lot-Sample #: A3I050000-389
Analysis Date..: 09/09/03
Dilution Factor: 1

Work Order #....: FXNV21AA
Prep Date.....: 09/05/03
Prep Batch #....: 3248389

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)- ether	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloro- propane)	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy)- methane	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro- benzene	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	50	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
Acenaphthene	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: A3I050168

Work Order #....: FXNV21AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
SURROGATE		PERCENT	RECOVERY	
		RECOVERY	LIMITS	
Nitrobenzene-d5	75	(32 - 112)		
2-Fluorobiphenyl	72	(30 - 110)		
Terphenyl-d14	113	(10 - 144)		
Phenol-d5	66	(10 - 113)		
2-Fluorophenol	71	(13 - 110)		
2,4,6-Tribromophenol	68	(21 - 122)		

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: A3I050168

Work Order #....: FXNV21AA

Matrix.....: WATER

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: A3I050168
MB Lot-Sample #: A3I090000-208
Analysis Date..: 09/10/03
Dilution Factor: 1

Work Order #....: FXVKN1AA
Prep Date.....: 09/09/03
Prep Batch #....: 3252208

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Phenol	ND	25	ug/L	SW846 8270C
bis(2-Chloroethyl)- ether	ND	25	ug/L	SW846 8270C
2-Chlorophenol	ND	25	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	25	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	25	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	25	ug/L	SW846 8270C
2-Methylphenol	ND	25	ug/L	SW846 8270C
2,2'-oxybis(1-Chloro- propane)	ND	25	ug/L	SW846 8270C
4-Methylphenol	ND	25	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	25	ug/L	SW846 8270C
Hexachloroethane	ND	25	ug/L	SW846 8270C
Nitrobenzene	ND	25	ug/L	SW846 8270C
Isophorone	ND	25	ug/L	SW846 8270C
2-Nitrophenol	ND	25	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	25	ug/L	SW846 8270C
bis(2-Chloroethoxy)- methane	ND	25	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	25	ug/L	SW846 8270C
1,2,4-Trichloro- benzene	ND	25	ug/L	SW846 8270C
Naphthalene	ND	25	ug/L	SW846 8270C
4-Chloroaniline	ND	25	ug/L	SW846 8270C
Hexachlorobutadiene	ND	25	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	25	ug/L	SW846 8270C
2-Methylnaphthalene	ND	25	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	120	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	25	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	25	ug/L	SW846 8270C
2-Chloronaphthalene	ND	25	ug/L	SW846 8270C
2-Nitroaniline	ND	120	ug/L	SW846 8270C
Dimethyl phthalate	ND	25	ug/L	SW846 8270C
Acenaphthylene	ND	25	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	25	ug/L	SW846 8270C
3-Nitroaniline	ND	120	ug/L	SW846 8270C
Acenaphthene	ND	25	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: A3I050168

Work Order #....: FXVKN1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
2,4-Dinitrophenol	ND	120	ug/L	SW846 8270C
4-Nitrophenol	ND	120	ug/L	SW846 8270C
Dibenzofuran	ND	25	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	25	ug/L	SW846 8270C
Diethyl phthalate	ND	25	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	25	ug/L	SW846 8270C
Fluorene	ND	25	ug/L	SW846 8270C
4-Nitroaniline	ND	120	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	120	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	25	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	25	ug/L	SW846 8270C
Hexachlorobenzene	ND	25	ug/L	SW846 8270C
Pentachlorophenol	ND	25	ug/L	SW846 8270C
Phenanthrene	ND	25	ug/L	SW846 8270C
Anthracene	ND	25	ug/L	SW846 8270C
Carbazole	ND	25	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	25	ug/L	SW846 8270C
Fluoranthene	ND	25	ug/L	SW846 8270C
Pyrene	ND	25	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	25	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	120	ug/L	SW846 8270C
Benzo(a)anthracene	ND	25	ug/L	SW846 8270C
Chrysene	ND	25	ug/L	SW846 8270C
bis(2-Ethylhexyl)phthalate	ND	25	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	25	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	25	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	25	ug/L	SW846 8270C
Benzo(a)pyrene	ND	25	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	25	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	25	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	25	ug/L	SW846 8270C

<u>SURROGATE</u>	<u>RECOVERY</u>	<u>PERCENT</u>	<u>RECOVERY</u>
		<u>LIMITS</u>	
Nitrobenzene-d5	59	(32 - 112)	
2-Fluorobiphenyl	48	(30 - 110)	
Terphenyl-d14	74	(10 - 144)	
Phenol-d5	56	(10 - 113)	
2-Fluorophenol	59	(13 - 110)	
2,4,6-Tribromophenol	54	(21 - 122)	

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: A3I050168 Work Order #....: FXVKN1AA Matrix.....: WATER

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: A3I050168

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
MB Lot-Sample #: A3I080000-116 Prep Batch #....: 3251116							
Arsenic	ND	0.010	mg/L		SW846 6010B	09/08-09/10/03	FXRX01AV
		Dilution Factor: 1					
Chromium	ND	0.0050	mg/L		SW846 6010B	09/08-09/10/03	FXRX01AW
		Dilution Factor: 1					
Nickel	ND	0.040	mg/L		SW846 6010B	09/08-09/10/03	FXRX01AX
		Dilution Factor: 1					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: A3I050168

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
MB Lot-Sample #: A3I080000-116 Prep Batch #: 3251116							
Arsenic	ND	0.010	mg/L	SW846 6010B		09/08-09/10/03	FXRX01AR
		Dilution Factor: 1					
Chromium	ND	0.0050	mg/L	SW846 6010B		09/08-09/10/03	FXRX01AT
		Dilution Factor: 1					
Nickel	ND	0.040	mg/L	SW846 6010B		09/08-09/10/03	FXRX01AU
		Dilution Factor: 1					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A3I050168

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #			
		LIMIT	UNITS	Work Order #:						
Total Suspended Solids	ND	4.0	mg/L	FX2CR1AA	MB Lot-Sample #:	A3I090000-699	Dilution Factor: 1	MCAWW 160.2	09/10/03	3252699

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A3I050168 **Work Order #....:** FOC0H1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A3I150000-345 **FOC0H1AD-LCSD**
Prep Date.....: 09/11/03 **Analysis Date..:** 09/11/03
Prep Batch #....: 3258345
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
					SW846 8260B
1,1-Dichloroethene	107	(63 - 130)			
	106	(63 - 130)	0.16	(0-20)	SW846 8260B
Trichloroethene	96	(75 - 122)			
	101	(75 - 122)	5.0	(0-20)	SW846 8260B
Benzene	95	(80 - 116)			
	100	(80 - 116)	5.6	(0-20)	SW846 8260B
Toluene	97	(74 - 119)			
	104	(74 - 119)	6.5	(0-20)	SW846 8260B
Chlorobenzene	93	(76 - 117)			
	100	(76 - 117)	7.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY
		LIMITS
Dibromofluoromethane	97	(73 - 122)
	96	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	85	(61 - 128)
Toluene-d8	102	(76 - 110)
	101	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)
	93	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #....: A3I050168 Work Order #....: FXNV21AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A3I050000-389 FXNV21AD-LCSD
 Prep Date.....: 09/05/03 Analysis Date...: 09/09/03
 Prep Batch #....: 3248389
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
Phenol	68	(10 - 131)			SW846 8270C
	69	(10 - 131)	0.95	(0-43)	SW846 8270C
2-Chlorophenol	78	(19 - 124)			SW846 8270C
	78	(19 - 124)	0.13	(0-43)	SW846 8270C
1,4-Dichlorobenzene	79	(28 - 110)			SW846 8270C
	82	(28 - 110)	4.0	(0-36)	SW846 8270C
N-Nitrosodi-n-propyl-amine	86	(30 - 115)			SW846 8270C
	87	(30 - 115)	1.7	(0-36)	SW846 8270C
1,2,4-Trichlorobenzene	75	(31 - 110)			SW846 8270C
	73	(31 - 110)	3.5	(0-37)	SW846 8270C
4-Chloro-3-methylphenol	79	(29 - 124)			SW846 8270C
	76	(29 - 124)	3.2	(0-55)	SW846 8270C
Acenaphthene	82	(39 - 118)			SW846 8270C
	81	(39 - 118)	0.36	(0-35)	SW846 8270C
4-Nitrophenol	80	(19 - 144)			SW846 8270C
	78	(19 - 144)	2.1	(0-34)	SW846 8270C
2,4-Dinitrotoluene	84	(47 - 131)			SW846 8270C
	84	(47 - 131)	0.19	(0-32)	SW846 8270C
Pentachlorophenol	68	(10 - 140)			SW846 8270C
	70	(10 - 140)	2.2	(0-56)	SW846 8270C
Pyrene	100	(46 - 130)			SW846 8270C
	97	(46 - 130)	3.1	(0-31)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	91	(32 - 112)
	88	(32 - 112)
2-Fluorobiphenyl	85	(30 - 110)
	83	(30 - 110)
Terphenyl-d14	115	(10 - 144)
	112	(10 - 144)
Phenol-d5	81	(10 - 113)
	81	(10 - 113)
2-Fluorophenol	84	(13 - 110)
	83	(13 - 110)
2,4,6-Tribromophenol	86	(21 - 122)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

**Client Lot #....: A3I050168 Work Order #....: FXNV21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A3I050000-389 FXNV21AD-LCSD**

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
	88	(21 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #....: A3I050168 Work Order #....: FXVKN1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A3I090000-208 FXVKN1AD-LCSD
 Prep Date.....: 09/09/03 Analysis Date...: 09/10/03
 Prep Batch #....: 3252208
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Phenol	62	(10 - 131)			SW846 8270C
	61	(10 - 131)	1.7	(0-43)	SW846 8270C
2-Chlorophenol	62	(19 - 124)			SW846 8270C
	63	(19 - 124)	1.3	(0-43)	SW846 8270C
1,4-Dichlorobenzene	66	(28 - 110)			SW846 8270C
	67	(28 - 110)	1.7	(0-36)	SW846 8270C
N-Nitrosodi-n-propyl- amine	75	(30 - 115)			SW846 8270C
	75	(30 - 115)	0.33	(0-36)	SW846 8270C
1,2,4-Trichloro- benzene	54	(31 - 110)			SW846 8270C
	55	(31 - 110)	2.2	(0-37)	SW846 8270C
4-Chloro-3-methylphenol	62	(29 - 124)			SW846 8270C
	64	(29 - 124)	3.9	(0-55)	SW846 8270C
Acenaphthene	63	(39 - 118)			SW846 8270C
	67	(39 - 118)	5.2	(0-35)	SW846 8270C
4-Nitrophenol	74	(19 - 144)			SW846 8270C
	74	(19 - 144)	0.92	(0-34)	SW846 8270C
2,4-Dinitrotoluene	74	(47 - 131)			SW846 8270C
	76	(47 - 131)	2.5	(0-32)	SW846 8270C
Pentachlorophenol	68	(10 - 140)			SW846 8270C
	73	(10 - 140)	6.9	(0-56)	SW846 8270C
Pyrene	72	(46 - 130)			SW846 8270C
	78	(46 - 130)	7.6	(0-31)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
Nitrobenzene-d5	69	(32 - 112)	
	70	(32 - 112)	
2-Fluorobiphenyl	58	(30 - 110)	
	61	(30 - 110)	
Terphenyl-d14	71	(10 - 144)	
	78	(10 - 144)	
Phenol-d5	66	(10 - 113)	
	67	(10 - 113)	
2-Fluorophenol	71	(13 - 110)	
	70	(13 - 110)	
2,4,6-Tribromophenol	71	(21 - 122)	

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

**Client Lot #....: A3I050168 Work Order #....: FXVKN1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A3I090000-208 FXVKN1AD-LCSD**

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
	75	(21 - 122)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: A3I050168

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#:	A3I080000-116	Prep Batch #....: 3251116			
Arsenic	93	(80 - 120)	SW846 6010B	09/08-09/10/03	FXRX01CL
		Dilution Factor:	1		
Chromium	97	(80 - 120)	SW846 6010B	09/08-09/10/03	FXRX01CM
		Dilution Factor:	1		
Nickel	92	(80 - 120)	SW846 6010B	09/08-09/10/03	FXRX01CN
		Dilution Factor:	1		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A3I050168

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A3I080000-116 Prep Batch #....: 3251116					
Arsenic	93	(80 - 120)	SW846 6010B Dilution Factor: 1	09/08-09/10/03	FXRX01CH
Chromium	97	(80 - 120)	SW846 6010B Dilution Factor: 1	09/08-09/10/03	FXRX01CJ
Nickel	92	(80 - 120)	SW846 6010B Dilution Factor: 1	09/08-09/10/03	FXRX01CK

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A3I050168

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	97	(66 - 119)	Work Order #: FX2CR1AC LCS Lot-Sample#: A3I090000-699 MCAWW 160.2 Dilution Factor: 1	09/10/03	3252699

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A3I050168 **Work Order #....:** FXPD21AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A3I050280-002 FXPD21AD-MSD
Date Sampled....: 09/03/03 13:54 **Date Received...:** 09/04/03
Prep Date.....: 09/11/03 **Analysis Date..:** 09/11/03
Prep Batch #....: 3258345
Dilution Factor: 10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	105	(62 - 130)	0.51	(0-20)	SW846 8260B
	104	(62 - 130)			SW846 8260B
Trichloroethene	96	(62 - 130)	0.50	(0-20)	SW846 8260B
	97	(62 - 130)			SW846 8260B
Benzene	88	(78 - 118)	0.73	(0-20)	SW846 8260B
	90	(78 - 118)			SW846 8260B
Toluene	94	(70 - 119)	0.05	(0-20)	SW846 8260B
	94	(70 - 119)			SW846 8260B
Chlorobenzene	92	(76 - 117)	0.10	(0-20)	SW846 8260B
	92	(76 - 117)			SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
	99	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
	89	(61 - 128)
Toluene-d8	102	(76 - 110)
	101	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)
	93	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: A3I050168

Matrix.....: WATER

Date Sampled....: 09/03/03 09:45 **Date Received..:** 09/05/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A3I050140-001 Prep Batch #....: 3251116							
Arsenic	93	(75 - 125)			SW846 6010B	09/08-09/10/03	FXNE11A6
	93	(75 - 125) 0.22 (0-20)			SW846 6010B	09/08-09/10/03	FXNE11A7
		Dilution Factor: 1					
Chromium	95	(75 - 125)			SW846 6010B	09/08-09/10/03	FXNE11A9
	96	(75 - 125) 0.60 (0-20)			SW846 6010B	09/08-09/10/03	FXNE11CA
		Dilution Factor: 1					
Nickel	90	(75 - 125)			SW846 6010B	09/08-09/10/03	FXNE11CD
	89	(75 - 125) 0.38 (0-20)			SW846 6010B	09/08-09/10/03	FXNE11CE
		Dilution Factor: 1					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A3I050168 **Work Order #....:** FXJDG-SMP
 FXJDG-DUP

Date Sampled....: 09/03/03 08:00 **Date Received..:** 09/03/03

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>	
		<u>RESULT</u>					<u>ANALYSIS DATE</u>	<u>BATCH #</u>	
Total Suspended Solids	22	22	mg/L	0.0	(0-20)	MCAWW	160.2	09/10/03	3252699
			Dilution Factor:	1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A3I050168 **Work Order #....:** FXN08-SMP **Matrix.....:** WATER
 FXN08-DUP
Date Sampled....: 09/04/03 13:00 **Date Received..:** 09/05/03

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	ND	ND	mg/L	100	(0-20)	MCAWW	SD Lot-Sample #: A3I050212-001 09/10/03	3252699
					Dilution Factor: 1			

Chain of Custody Record

**SEVERN
TRENT
SERVICES**

Severn Trent Laboratories, Inc.

62

STL-4124 (0801)
Client

THE PAWE Firm
Project Manager **DAN WEED**
Date **9/4/03**
Chain of Custody Number **162871**

Address

11231 Cuyahoga Pk. Dr
City **CW** State **OH** Zip Code **45242**
Telephone Number (Area Code)/Fax Number **513-469-2255 / 513-469-2533**

Project Name and Location (State)

END CHEMICALS INC./OHIO

Contract/Purchase Order/Quote No.

Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

Date **9/4/03** Time **1405**

Air **X** Aqueous **X**

Sed. **X** Soil **X**

Unpres. **X**

H₂SO₄ **X**

HNO₃ **X**

HCl **X**

NaOH **X**

ZnAc/
NaOH **X**

Matrix **STL**

Containers &
Preservatives

VOC **X**
58OC **X**

METALS - TOTAL **X**

METALS - DISSOLVED **X**

TOTAL SUS. SOLIDS **X**

- NO SAMPLE TIME

- RESULTS TO DAN WEED

- DISPOSED METALS ARE FILTERED

- METALS INCLUDE:
ARSENIC, CHROMIUM,
NICKEL, URANIUM

(A fee may be assessed if samples are retained

Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (longer than 1 month)

QC Requirements (Specify)	
Turn Around Time Required	
<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours
<input type="checkbox"/> 7 Days	<input type="checkbox"/> 14 Days
<input type="checkbox"/> 21 Days	<input checked="" type="checkbox"/> Other <u>NORMAL</u>
1. Relinquished By	<u>R. B. H.</u>
2. Relinquished By	<u>R. B. H.</u>
3. Relinquished By	<u>R. B. H.</u>

Comments	
DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy	

**STL Cooler Receipt Form/Narrative
North Canton Facility**

Lot Number: 431050168

Client: The Payne Firm
Cooler Received on: 9/5/03

Project: EMD
Opened on: 9/5/03

Quote#:
by: JJ Will
(Signature)

FedEx Client Drop Off UPS Airborne Other: _____
Cooler Safe Foam Box Client Cooler

STL Shipper No#: See back

1. Were custody seals on the outside of the cooler? Yes No
If YES, Quantity 2 Location Top
Were the custody seals signed and dated?
2. Shipper's packing slip attached to this form?
3. Were custody papers included inside the cooler and relinquished?
4. Did you sign the custody papers in the appropriate place?
5. Packing material used:

Peanuts Bubble Wrap Vermiculite Foam None Other: _____

6. Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial Coolant & Sample Against Bottles

COOLANT: Wet Ice Blue Ice Dry Ice Water

7. Did all bottles arrive in good condition (Unbroken)?
8. Did all bottle labels and tags agree with the custody papers?
9. Were samples at the correct pH? (record on back)
10. Were correct bottles used for the tests indicated?
11. Were air bubbles >6 mm in any VOA vials?
12. Was a sufficient amount of sample sent in each bottle?

Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning:

✓ MACRO MACRO

1. CHAIN OF CUSTODY

SR1A	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____ _____ _____ _____
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2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume.
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). <i>Nitric Acid Lot # 061603-HNO3; Sulfuric Acid Lot # 112801-H2SO4; Sodium Hydroxide Lot # 011102-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH3COO2ZN/NaOH</i>
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

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STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
MW-42	<2 <2	9/5/03	JK
MW-17	<2 <2	✓	✓
Cooler	Temp	Method	Coolant
A130	2.7	IR	wet ice
A140	3.1	✓	✓

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

END OF REPORT